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WHAT WE OWE TO THE TREES.

In the April number of Harper's Monthly Magazine, Mr. N. H. Egleston has a very inter esting and instructive article, entitled "What We Owe to the Trees." As it affords valuable lessons to Canada as well as to the United States, we take from it the following extracts, and will give others in our next issue "

RCHCOLS OF FORESTRY

So important a place have the forests come to occupy in the estimation of European people, on account of their value as sources of fuel and lumber, as well as their relations to agriculture, to climate, and to health, that the care and management of them have become one of the most important employments of private landholders, and of the many ecrporate bodics, including states and kingdoms, which are the possessors of forest domains. The state forests of France, for instance, amount to 3,000,000 acres, it is said, and reach an annual revenue of \$5,-Many of the provinces and departments also are large forest proprietors. Ger many has about 35,000,000 acres in forest, nearly one-third of which belongs to the state, one-sixth to the communes, and somewhat less than one half to private individuals. Other European countries have larger forest areas, with correspendingly large revenues. The recognized im portance of the forest interest has led to the establishment in most European countries of what are known as schools of forestry institutions ranking in importance with our colleges and polytechnic schools. They furnish a course of instruction from two to two and a half years in length. During these terms the pupils are to spend five hours daily in study, and as many more in attendance upon lectures, or to do about twice the work required in our colleges. Taking for illustration the school near Berlin, the faculty embraces a director, who occupies the chair of forest science, with two assistants in the same department, a teacher of mathematics, physics, mechanics, and meteorology, one of chemistry, mineralogy, and geognosy, one of botany, one of zoology, and one of jurisprudence; and, in addition, a royal forest officer as assistant teacher of construction of roads, geodesy, and plan-drawing, and also a chemist as assistant teacher of geology

It will be seen, even from such general statements, that the instruction in these schools in cludes not only the technical or botanical study of forests, but embraces also a complete course in natural science and mathematics, as well as, to a considerable extent, political economy, finance, and jurisprudence. Captain Campbell Walker, chief conservator of forests in New Zealand, giving an account of his visit to the school at Neustadt-Eberswalde, says: "Noth ing struck me as more remarkable than the ex tent and varied nature of the studies required from forest candidates or probationers in Prus, acres were burned over simply to clear the pla, and the number of years they are contented land.

to spend, first in studying, and then in waiting for an appointment." The students at these schools or academics are expected to spend several years, either before or after their graduation, in practical work in the forest, under the watch and instruction of the forest officers, and it is only after five or eix years of such employ ment that they can reasonably expect to receive a fixed and permanent appointment in connecwith the forest service. Yet so respectable and desirable is this employment considered, that it is stated on good authority that a few years ago there were not less than thirty three barons or baronets holding appointments in the crown forests of Prussia

The important place which forestry holds abroad may be seen from the fact that there are nine of these schools in Germany, and one or more in every European country except Great Britain, which has hardly any forests to take care of, while the abundant moisture from her surrounding seas, and her exemption from severe summer heats on account of her high latitude, present her from suffering from the absence of trees, as she otherwise would.

THE WORK OF DESTRUCTION.

In our own country we have gone to the forests in a kind of freebooter style, cutting, and burning more than we could cut, acting for the most part as though all the while in a frulic or fight, until now at lengt', after a century or two of this sort of work, we are waking up to the fact that our once boundless woods are disappearing, and that we are likely to suffer no little loss thereby. But it is only the few who increment in the right direction. In the reseem now to have any adequate sense of our ports of planting the figures make an imposing. The thing to do is to abolish it altogether,
condition as effected by the threatened loss of aggregate. But a liberal discount needs to be. Then trees should be intelligently cultivated. the trees. In a recent publication, issued by authority of one of our Western States for the express purpose of attracting settlers from European countries, the statistics of its great lumber production are elaborately set forth, accompanied by the assurance that the present enormous consumption of trees for this purpose may be continued ten or fifteen years longer before the forests will be destroyed. The coul unconcern in regard to the future shown in this is very noticeable. "After us, the deluge." A corresponding feeling, though working on a much smaller scale, is seen in an advertisement, and of a class often appearing in our older states. "Brace up, Young Man. You have lived on your parents long enough. Buy this farm, cut off the wood, haul it to market, get your money for it, and pay for the farm... The owner esti mates that there will be 500 cords of market And so, all over the country, on the large scale and on the small, the axe is laid at the roots of the trees, and our forests are fast disappearing. It is estimated that 8,000,000 acres of forest land are cleared every year, and that in the ten years previous to 1876, 12,000,000

PLANTING ENCOURAGED.

The very necessities of their situation have aroused the people of some of our Western fore they can fill their place. States to action. In Kansas, Nebraska, and other states liberal promiums have been offered for the encouragement of tree-planting, and ly to the planting of trees. Similar efforts have, but the yellow floods waste the wealth of the instances planters of trees, feeling the need of into the Mediterranean and Dead Sea, them both as screens from the fierce storms that There are hundreds of creeks within 100 miles ly needing renewal.

ready obtained in regard to the most profit-blo creasing. made for the probable failure of a large percentage of the trees planted. And even with the most generous estimate in regard to the work of decrease of our forest area at seven million lating in the lands, or stumpage.

average, of more than a century's growth, while those we plant must grow during a century be

DESTROYING FORESTS.

In an able article on the subject of forest re! already in many portions of the prairie region a moval, the Cincinnati Commercial says that the perceptible change has taken place, and the eye conditions that affect the Ohio are still more no longer wanders over great spaces without strikingly apparent in the Cumberland. This sight of tree or shrub. Minnesota has her great river nearly disappeared in the heats of Forestry Association, and its secretary reports last summer, and a few weeks ago was so high that between seven and ten millions of trees, as to do frightfui mischief. There was a time were planted in that state during the year 1877, when the water supply was hardly sufficient for of which more than half a million were planted. Nashville, and again a considerable portion of in a single day, "Arbor Day," as it is called, the city was overwhelmed. or tree planting day, the first Tuesday of May the grain, the rails, the bridges and houses that having been fixed upon as the day, and every are swept away, the loss of which inflicts in the owner of land invited to devote the day especial. largest degree impovershment upon the country, been made in other states which are similarly land. There is talk that the Jews will return to situated in respect to a supply of forest. The Palestine. They can not do it. The country great railway companies, whose roads stretch would not sustain a great people. The forests across the treeless prairies, have become in some, are gone, and with them the soil, washed off

sweep down from the Rocky Mountains, and as a of Cincinnati that 50 years ago were ample and source of supply for the ties which are constant; beautiful all the year around, and populous with sunfish and silver sides, and that were Tree-planters manuals are published and dis- serviceable in turning mills, that now aiternate tributed freely, with a view to aid those who between dusty guilles and turbid terrents, and would plant by giving them the experience al-, the danger of water famine is constantly in-ready obtained in regard to the most profit-ble creasing. " " The last vestiges of timber trees to plant and the best methods of planting. will be cleared from the Unio salley in the Thus in some places there is already quite a course of a few years if the necessity for the

LAND GRABBING.

One of our exchanges mys that for several planting, what is accomplished as yet is but a years past it has been known that a large area fraction of what needs to be done. It is but of timber land in northern Minnesota, especial the feeble beginning of a cast work. The talk by in the region drained by the St. Louis river is of millions of trees planted. This sounds and streams emptying into Lake Superior, has well. But a good many trees can stand upon been unlawfully secured by lumber operators an acre, and the latest estimates put the annual for the purpose of cutting off the pine, or specuacres. So that Minnesota, with all her ardor business has been stimulated by the building of in this work, has only planted one tree for every the Northern Pacific railroad from the Duluth acre of trees destroyed. An area equal to that district westward through Minnesota and Daof the State of Maryland is every year swept kota, which has opened up a vast demand for clean of its trees. This is a large section to be lumber. The method by which the land taken yearly out of our forest resources. With grabbers proceed is by taking advantage of the all that we are yet doing in the way of tree-pre-emption law. By a liberal application of planting, the balance is largely against us, its provisions a single spectator is able to locate With all the interest and energy manifested by himself repeatedly, and he becomes a permanent the young West on this subject, stimulated by homesteader, as it were, on numerous quarter her most pressing need, we are only planting sections of land, and always where the pine one acre while thirty-five are laid bare by the stands the thickest and best, and is handy to axe and by fire. And we must consider also streams. The way which a single individual, that the work of destruction goes on at an afflicted with the pine craze, will multiply himincreasing rate from year to year as our popula- self for the purpose of covering as much pine tion and our industries increase, and that the land as possible, is a terror to the law. - Lum'ertrees which are relied are the product, on the man's Gazeffe